



# Release Notes for Cisco Catalyst IE9300 Rugged Series Switches, Release 26.2.x



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# Cisco Catalyst IE9300 Rugged Series Switches, Release 26.2.x

This document provides release information for the following Cisco Catalyst IE switches.

- Cisco Catalyst IE9310 GE Fiber switch
- Cisco Catalyst IE9320 GE Fiber switch
- Cisco Catalyst IE9320 Fiber switch with 10 GE uplinks
- Cisco Catalyst IE9320 10 GE Copper Data switch
- Cisco Catalyst IE9320 10 GE PoE switch
- Cisco Catalyst IE9320 10 G mGig 4PPoE switch
- Cisco Catalyst IE9320 GE PoE switch
- Cisco Catalyst IE9310 GE mixed port switch

## Cisco Catalyst IE9300 Rugged Series Switch

Cisco Catalyst IE9300 Rugged Series Switches provide rugged and secure switching infrastructure for harsh environments. They are suitable for industrial Ethernet applications, including manufacturing, utility substations, Intelligent Transportation Systems (ITS), rail transportation, and other similar deployments.

The switch fulfills the need for a high-density SFP, RJ-45, and Power over Ethernet (PoE) rack- or wall-mounted switch that can function as a Software-Defined Access (SDA) fabric edge. It provides end-to-end architectural uniformity in the Cisco Catalyst Center for Internet of Things (IoT) connected communities and extended enterprises.

In industrial environments, the switch can be connected to any Ethernet-enabled industrial communication devices. These devices include programmable logic controllers (PLCs), human-machine interfaces (HMI), drives, sensors, and input and output (I/O) devices.

All Cisco Catalyst IE9300 Rugged Series Switches have 4 GB of DRAM, four alarm inputs, and one alarm output. Other I/O interfaces include the following:

- SD card slot
- Power input
- RJ-45 (RS-232) console
- Micro-USB console
- USB-A host port

## New software features

This section provides a brief description of the new software features introduced in Cisco IOS XE Release 26.2.x.

### IOS XE 26.2.1

Table 1. New software features release 26.2.1

| Product Impact | Feature                                  | Description                                                                                                                           |
|----------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Security       | <a href="#">Resilient Infrastructure</a> | As part of Cisco’s Resilient Infrastructure program and Cisco’s commitment to secure infrastructure, this release includes additional |

| Product Impact       | Feature                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                                  | <p>changes aimed towards continuing to make Cisco IOS XE more secure by default. Note that some of these changes may require operational changes if you are not following secure best practices. This release includes the following changes:</p> <ul style="list-style-type: none"> <li>• The RADIUS client appends the Message-Authenticator attribute (Attribute 80 HMAC-MD5) to all outgoing Access-Request packets to mitigate cryptographic forgery and <a href="#">Blast-RADIUS</a> vulnerabilities (CVE-2024-3596).</li> <li>• The RADIUS client drops incoming Access-Accept, Access-Reject, and Access-Challenge packets if the Message-Authenticator is absent or invalid. Ensure AAA servers (example, Cisco ISE) are configured to return Attribute 80.</li> <li>• Outbound SSH connections enforce Trust-On-First-Use (TOFU). The device prompts to verify and store remote server host keys in the known-hosts database on first connection and validates against them on subsequent sessions.</li> <li>• Proxy ARP is disabled by default across all routed interfaces, SVIs, and subinterfaces to reduce Layer 2 broadcast domains and prevent ARP spoofing. Configure the <b>ip proxy-arp</b> command explicitly if required.</li> <li>• The embedded web server daemon is disabled by default on factory configurations to restrict unauthenticated management access. Web UI and RESTCONF require explicit enablement of the <b>ip http secure-server</b> command.</li> <li>• The IOS XE device rejects unauthenticated NTP Mode 6 and Mode 7 control queries (monlist) to prevent NTP reflection and amplification DDoS attacks. Standard time synchronization (Modes 3 and 4) is unaffected.</li> <li>• System logging timestamps automatically include the four-digit calendar year (service timestamps log datetime msec year) to standardize multi-year audit logs and SIEM compliance.</li> <li>• Integrates Linux auditd inside Cisco IOx Guest Shell. All commands, system calls, and privilege escalation events (sudo) executed inside the container are forwarded to the host syslog facility.</li> <li>• Warning messages are emitted on the console and logged to syslog whenever legacy insecure protocols (telnet, ftp, tftp, http) are enabled in the configuration.</li> <li>• Real-time tracking of active insecure services is published to the operational database (operDB) and YANG data models, allowing management controllers (such as Cisco Catalyst Center) to monitor security compliance.</li> </ul> |
| Security             | <a href="#">CIP Password encryption</a>          | Starting with Cisco IOS XE Release 26.2.1, Cisco Catalyst IE9300 Rugged Series Switches use Type 8 password protection for Common Industrial Protocol (CIP) configuration credentials. Type 8 password protection strengthens credential security by using a secure, nonreversible password-hashing mechanism.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Software Reliability | <a href="#">EVPN Multihoming All-Active Mode</a> | EVPN multihoming all-active mode provides non-blocking Layer 2 connectivity by enabling traffic load balancing across redundant links. It improves network resiliency and utilization while maintaining continuous connectivity during link or device failures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Enhanced Reliability | <a href="#">FlexLink+</a>                        | FlexLink+ provides Layer 2 link redundancy without using STP. It supports active-standby failover on physical interfaces and EtherChannel bundles. VLAN load balancing lets both links forward traffic for different VLANs. After a failed link recovers, the preferred VLAN forwarding can be restored manually or automatically after a configured delay.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Product Impact       | Feature                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Security             | HTTPS servers disabled by default except for express setup        | Starting with Cisco IOS XE 26.2.1, HTTPS servers remain disabled by default, excluding express setup deployments which retain existing settings.                                                                                                                                                                                                                                                                                                                                              |
| Security             | <a href="#">Post Quantum Cryptography for MACsec with EAP-TLS</a> | Cisco Industrial Ethernet switches can use ML-KEM-based key exchange with EAP-TLS 1.3 to provide quantum-resistant key establishment for MACsec connections. EAP-TLS derives keying material that MKA uses to establish secure MACsec communication between switches.                                                                                                                                                                                                                         |
| Security             | <a href="#">Post Quantum Cryptography for SSHv2 Sessions</a>      | Cisco Industrial Ethernet switches can combine ML-KEM with traditional key-exchange algorithms to secure SSHv2 sessions. This hybrid approach provides quantum-resistant key establishment for secure remote management while retaining protection against classical attacks.                                                                                                                                                                                                                 |
| Security             | <a href="#">PROFINET Netload-3 Robustness</a>                     | This feature increases resilience to abnormal network traffic. It detects unexpected PROFINET Real-Time traffic, invokes Layer 2 source blocking, and rate-limits incoming Layer 3 traffic directed to the PROFINET VLAN IP address.                                                                                                                                                                                                                                                          |
| Upgrade              | <a href="#">PTP over HSR</a>                                      | This release introduces Precision Time Protocol (PTP) over High-availability Seamless Redundancy (HSR), enabling millisecond-level time synchronization with zero network downtime. This feature ensures continuous PTP operation during network failures, eliminating the 4 to 10 second re-convergence delays that disrupt time-sensitive industrial applications. PTP over HSR supports Power Profile with Boundary Clock and P2P Transparent Clock modes for up to 50 nodes per HSR ring. |
|                      | <a href="#">PTP over REP</a>                                      | This feature combines Precision Time Protocol with Resilient Ethernet Protocol to maintain millisecond-level time synchronization during network failures with <200 ms failover, eliminating PTP re-convergence delays that disrupt industrial applications.                                                                                                                                                                                                                                  |
| Enhanced Reliability | <a href="#">26 segment support on REP fast</a>                    | This feature now supports 26 open segments and 13 closed segments. For information about REP Fast and its configuration, see <a href="#">REP Fast</a> .                                                                                                                                                                                                                                                                                                                                       |
| Ease of Use          | <a href="#">Support for Meraki cloud management</a>               | The Cisco Catalyst IE9300 Rugged Series Switches support cloud management mode, enabling centralized control through the Meraki dashboard. This functionality supports migration from Cisco IOS XE to cloud management mode for streamlined monitoring and configuration.                                                                                                                                                                                                                     |

## New hardware features

This section provides a brief description of the new hardware features introduced in Cisco IOS XE Release 26.2.x.

### IOS XE 26.2.1

There are no new hardware features in this release.

## Change in behavior

### WebHelp documentation discontinued

Starting with Cisco IOS XE Release 26.2.1, WebHelp documentation is not available for Industrial Ethernet switches. We recommend using the product documentation available on [Cisco.com](https://www.cisco.com).

## MRP uses the VLAN 1 MAC address

Starting with Cisco IOS XE Release 26.2.1, MRP uses the MAC address of the VLAN 1 interface to identify the best manager host.

## Resolved issues

This section lists resolved issues in Cisco IOS XE Release 26.2.x.

**Note:** This software release may contain bug fixes first introduced in other releases. To see additional information, click the bug ID to access the [Cisco Bug Search Tool](#).

### IOS XE 26.2.1

**Table 2.** Resolved issues in release 26.2.1

| Bug ID                     | Description                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">CSCwt45804</a> | The switch could experience a memory leak and restart unexpectedly when PTP was configured over an unsupported port-channel interface.  |
| <a href="#">CSCwu25584</a> | PTP timestamp retrieval could fail on a 10-Gigabit Ethernet port after a link flap.                                                     |
| <a href="#">CSCwt94316</a> | Communication between translated addresses could fail when Layer 2 Network Address Translation (NAT) was configured.                    |
| <a href="#">CSCwu29126</a> | IE9300 - ALT port failing to block traffic, causing network loops in REP ring.                                                          |
| <a href="#">CSCwt95175</a> | A Cisco Catalyst Industrial Ethernet switch may appear as Device Unresponsive after it is added to the Cisco Catalyst Center inventory. |
| <a href="#">CSCwu78398</a> | A powered device may be incorrectly reported as disconnected from a PoE interface.                                                      |
| <a href="#">CSCwt64311</a> | Packet padding may not work correctly for VLAN-tagged traffic when PRP is enabled on Cisco Catalyst IE9300 or IE3500 Series switches.   |

## Open issues

This section lists open issues in Cisco IOS XE Release 26.2.x.

**Note:** This software release may contain open bugs first identified in other releases. To see additional information, click the bug ID to access the [Cisco Bug Search Tool](#).

### IOS XE 26.2.1

**Table 3.** Open issues in release 26.2.1

| Bug ID                     | Description                                                                |
|----------------------------|----------------------------------------------------------------------------|
| <a href="#">CSCww30938</a> | CRC errors may increase on 1-Gbps links on Cisco Catalyst IE9320 switches. |

## Known issues

This section lists known issues in Cisco IOS XE Release 26.2.x.

## IOS XE 26.2.1

There are no known issues in this release.

## Compatibility

Refer to the [Cisco IOS XE Migration Guide for IIoT Switches](#) for the latest information about upgrading and downgrading switch software for Cisco Catalyst IE9300 Rugged Series Switches.

## Supported hardware

This section lists supported hardware information.

This table lists the supported hardware models for Cisco Catalyst IE9300 Rugged Series Switches and the default license levels that they are delivered with.

| Model Number      | Default License Level | Stacking Support | Description                                                                                                                                                                                                                                                                              |
|-------------------|-----------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IE-9310-26S2C-A   | Network Advantage     | No               | <ul style="list-style-type: none"><li>• Total ports: 28</li><li>• SFP uplinks: 4x 1 Gb SFP</li><li>• SFP downlinks: 22x 100M/1000M SFP, 2x 100M/1000M dual-media</li><li>• Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li></ul>                    |
| IE-9310-26S2C-E   | Network Essentials    | No               | <ul style="list-style-type: none"><li>• Total ports: 28</li><li>• SFP uplinks: 4x 1 Gb SFP</li><li>• SFP downlinks: 22x 100M/1000M SFP, 2x 100M/1000M dual-media</li><li>• Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li></ul>                    |
| IE-9310-16P8S4X-E | Network Essentials    | No               | <ul style="list-style-type: none"><li>• Total ports: 28</li><li>• PoE+ ports: 16 ports 10/100/1000M</li><li>• SFP downlinks: 8 ports 100/1000M</li><li>• SFP uplinks: 4 ports 1/10G</li><li>• Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li></ul> |
| IE-9310-16P8S4X-A | Network Advantage     | No               | <ul style="list-style-type: none"><li>• Total ports: 28</li><li>• PoE+ ports: 16 ports 10/100/1000M</li><li>• SFP downlinks: 8 ports 100/1000M</li><li>• SFP uplinks: 4 ports 1/10G</li><li>• Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li></ul> |
| IE-9320-26S2C-A   | Network Advantage     | Yes              | <ul style="list-style-type: none"><li>• Total ports: 28</li><li>• SFP uplinks: 4x 1 Gb SFP</li><li>• SFP downlinks: 22x 100M/1000M SFP, 2x 100M/1000M dual-media</li><li>• Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li></ul>                    |
| IE-9320-26S2C-E   | Network Essentials    | Yes              | <ul style="list-style-type: none"><li>• Total ports: 28</li><li>• SFP uplinks: 4x 1 Gb SFP</li><li>• SFP downlinks: 22x 100M/1000M SFP, 2x 100M/1000M dual-media</li><li>• Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li></ul>                    |

| Model Number      | Default License Level | Stacking Support | Description                                                                                                                                                                                                                                                                               |
|-------------------|-----------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IE-9320-22S2C4X-A | Network Advantage     | Yes              | <ul style="list-style-type: none"> <li>Total ports: 28</li> <li>SFP uplinks: 4x 10 Gb SFP+</li> <li>SFP downlinks:</li> <li>22x 1 Gb SFP, 2x 1-Gb Dual-media ports</li> <li>Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li> </ul>                   |
| IE-9320-22S2C4X-E | Network Essentials    | Yes              | <ul style="list-style-type: none"> <li>Total ports: 28</li> <li>SFP uplinks: 4x 10 Gb SFP+</li> <li>SFP downlinks:</li> <li>22x 1 Gb SFP, 2x 1-Gb Dual-media ports</li> <li>Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li> </ul>                   |
| IE-9320-24T4X-A   | Network Advantage     | Yes              | <ul style="list-style-type: none"> <li>Total ports: 28</li> <li>SFP uplinks: 4x 10 Gb SFP+</li> <li>Copper downlinks: 24x 1 Gb RJ-45</li> <li>Power supplies: Support for field-replaceable, redundant AC or DC power supplies.</li> </ul>                                                |
| IE-9320-24T4X-E   | Network Essentials    | Yes              | <ul style="list-style-type: none"> <li>Total ports: 28</li> <li>SFP uplinks: 4x 10 Gb SFP+</li> <li>Copper downlinks: 24x 1 Gb RJ-45</li> <li>Power supplies: Support for field-replaceable, redundant AC or DC power supplies.</li> </ul>                                                |
| IE-9320-24P4X-A   | Network Advantage     | Yes              | <ul style="list-style-type: none"> <li>Total ports: 28</li> <li>SFP uplinks: 4x 10 Gb SFP+</li> <li>Copper downlinks: 24x 1 Gb RJ-45 PoE+</li> <li>Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li> </ul>                                            |
| IE-9320-24P4X-E   | Network Essentials    | Yes              | <ul style="list-style-type: none"> <li>Total ports: 28</li> <li>SFP uplinks: 4x 10 Gb SFP+</li> <li>Copper downlinks: 24x 1 Gb RJ-45 PoE+</li> <li>Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li> </ul>                                            |
| IE-9320-16P8U4X-A | Network Advantage     | Yes              | <ul style="list-style-type: none"> <li>Total ports: 28</li> <li>SFP uplinks: 4x 10 Gb SFP</li> <li>Copper downlinks: 16 ports 1 Gb RJ-45 PoE+, 8 ports 2.5 Gb RJ-45 4PPoE (90W/port)</li> <li>Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li> </ul> |
| IE-9320-16P8U4X-E | Network Essentials    | Yes              | <ul style="list-style-type: none"> <li>Total ports: 28</li> <li>SFP uplinks: 4x 10 Gb SFP</li> <li>Copper downlinks: 16 ports 1 Gb RJ-45 PoE+, 8 ports 2.5 Gb RJ-45 4PPoE (90W/port)</li> <li>Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li> </ul> |
| IE-9320-24P4S-A   | Network Advantage     | Yes              | <ul style="list-style-type: none"> <li>Total ports: 28</li> <li>SFP uplinks: 4x 1Gb SFP</li> <li>Copper downlinks: 24 ports 1 Gb RJ-45 PoE+</li> </ul>                                                                                                                                    |

| Model Number    | Default License Level | Stacking Support | Description                                                                                                                                                                                                                                                                                                                                |
|-----------------|-----------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IE-9320-24P4S-E | Network Essentials    | Yes              | <ul style="list-style-type: none"> <li>Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li> <li>Total ports: 28</li> <li>SFP uplinks: 4x 1Gb SFP</li> <li>Copper downlinks: 24 ports 1 Gb RJ-45 PoE+</li> <li>Power supplies: Support for field-replaceable, redundant AC or DC power supplies</li> </ul> |

Note: Documentation sometimes uses these terms:

- IE9310 GE Fiber switch when referring to both IE-9310-26S2C-A and IE-9310-26S2C-E switches
- IE9320 GE Fiber switch when referring to both IE-9320-26S2C-A and IE-9320-26S2C-E switches
- IE9320 Fiber switch with 10 GE uplinks when referring to both IE-9320-22S2C4X-A and IE-9320-22S2C4X-E switches
- IE9320 10 GE Copper Data switch when referring to both IE-9320-24T4X-A and IE-9320-24T4X-E switches
- IE9320 10 GE PoE switch when referring to both IE-9320-24P4X-A and IE-9320-24P4X-E
- IE9320 10 G mGig 4PPoE switch when referring to both IE-9320-16P8U4X-A and IE-9320-16P8U4X-E
- IE9320 GE PoE switch when referring to both IE-9320-24P4S-A and IE-9320-24P4S-E
- IE9310 GE mixed port when referring to both IE-9310-16P8S4X-A and IE-9310-16P8S4X-E switches.

## Supported software packages

### Finding the software version

- The package files for Cisco IOS XE software can be found on the system board's internal flash memory device (flash:) or an external USB, depending on the platform configuration.
- Use the **show version** privileged EXEC command to display the software version running on the switch. The model name displayed at the end of the output reflects the factory configuration and does not change after software license upgrades.
- Use the **dir <filesystem>**: privileged EXEC command to view the names and versions of software images stored in flash memory.

### Software images for Cisco IOS XE 26.2.x

This table provides the filename for the Cisco IOS XE Release 26.2.x software image for Cisco Catalyst IE9300 Rugged Series Switches.

**Table 4.** Software packages for Cisco IOS XE Release 26.2.x

| Release                             | Image type | Filename                    | Switch Models                                |
|-------------------------------------|------------|-----------------------------|----------------------------------------------|
| <a href="#">Cisco IOS XE 26.2.1</a> | Universal  | ie9k_iosxe.26.02.01.SPA.bin | Cisco Catalyst IE9300 Rugged Series Switches |

To install and activate the specified file, and to commit the changes so that they persist across reloads, enter the command: **install add file filename [activate commit]**

This table lists the options for the **install** command for the Cisco Catalyst IE9300 Rugged Series Switches.

**Table 5.** Summary of software installation commands for install mode

| Command          | Description                                                  |
|------------------|--------------------------------------------------------------|
| abort            | Abort the current install operation.                         |
| activate         | Activate an installed package.                               |
| add              | Install a package file to the system.                        |
| auto-abort-timer | Install auto-abort-timer.                                    |
| auto-upgrade     | Initiate software auto-upgrade on all incompatible switches. |
| commit           | Commit the changes to the load path.                         |
| deactivate       | Deactivate an install package.                               |
| label            | Add a label name to any installation point.                  |
| remove           | Remove installed packages.                                   |
| rollback         | Roll back to a previous installation point.                  |

## Related resources

**Table 6.** Additional references for Cisco IOS XE IE9300 Rugged Series Switches

| Document                                | Description                                                                                                            |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Cisco IOS XE</a>            | Provides information about Cisco IOS XE.                                                                               |
| <a href="#">Cisco Validated Designs</a> | Provides information about Cisco Validated Designs.                                                                    |
| <a href="#">Cisco MIB Locator</a>       | Provides tools for locating and downloading MIBs.                                                                      |
| <a href="#">Cisco Profile Manager</a>   | Provides timely and relevant information from Cisco.                                                                   |
| <a href="#">Cisco Services</a>          | Provides the business outcomes and technical support services needed to maximize the value of your Cisco technologies. |
| <a href="#">Cisco Support</a>           | You can submit a service request here.                                                                                 |
| <a href="#">Cisco DevNet</a>            | Enables you to discover secure, validated applications and integrations for Cisco networking platforms.                |

| Document                                | Description                                                                                                                                                                                                                                                          |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Cisco Press</a>             | Provides general networking, training, and certification titles.                                                                                                                                                                                                     |
| <a href="#">Cisco Warranty Finder</a>   | Provides warranty information for a specific product or product family.                                                                                                                                                                                              |
| <a href="#">Cisco Community</a>         | You can ask and answer questions, share suggestions, and collaborate with your peers.                                                                                                                                                                                |
| <a href="#">Cisco TAC</a>               | Provides the most up-to-date, detailed troubleshooting information. Go to Product Support and select your product from the list or enter the name of your product. Look under Troubleshoot and Alerts to find information for the problem that you are experiencing. |
| <a href="#">Cisco Feature Navigator</a> | Provides platform support details and license level information for features.                                                                                                                                                                                        |
| Documentation Feedback                  | To provide feedback about Cisco technical documentation, use the feedback form available in the right pane of every online document.                                                                                                                                 |
| <a href="#">Licenses</a>                | Provides information about the licensing packages for features.                                                                                                                                                                                                      |

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